

Tu 144

Yefim Gordon, E. Gordon

Tupolev Tu-144 E. Gordon, Yefim Gordon, Dmitriy Komissarov, Vladimir Rigmant, 2015 Developed in the 1960s/1970s, the Tu-144 was the Soviet Union's only practical venture into supersonic commercial aviation. Though its career was all too brief, it was a major technological achievement for the Soviet aircraft industry. The book provides in-depth coverage of the Concorde, including projected versions, the Tu-144's production and service history, and a comparison with the Concorde. First flown on the last day of 1968 ahead of the Concorde the Tu-144 had to undergo a long gestation period before the production version entered service in November 1977. Unfortunately, its career proved to be brief; two accidents and a powerful anti-Tu-144 lobby caused the type to be withdrawn in May 1978. The book describes the Tu-144's versions (including the Tu-144LL research aircraft developed under a Russian-U.S. program) and touches on the projected military derivatives. It is illustrated with color side views and previously unpublished photographs. -- Publisher marketing.

Tupolev Tu-144 Yefim Gordon, E. Gordon, Vladimir Rigmant, 2005 The rapid development of commercial aviation in the 1950s and 1960s, coupled with advancing aircraft technology, led Great Britain and France to pool resources to create the famous supersonic Concorde airliner. As soon as the Soviet government got wind of this program, it tasked the national aircraft industry with an even more ambitious project: the Soviet Union was to create an SST entirely on its own and ahead of

the West; this was a matter of national prestige. Predictably, Andrey N. Tupolev received the assignment to create the airliner that would place the Soviet Union in the lead. At the cost of a tremendous research and development effort, the target was met v designated Tu-144 (and dubbed, rather mockingly, Concorfski by the West), the Soviet SST took to the air in December 1968 ahead of its Anglo- French counterpart. This book gives a detailed account of the Tu-144's design and explains the reasons of its premature withdrawal; it also describes the type's recent use in a new-generation SST technology research program held jointly with NASA. It is illustrated with numerous previously unreleased photos and line drawings.

A Qualitative Piloted Evaluation of the Tupolev Tu-144 Supersonic Transport Robert A. Rivers, 2000 Two U.S. research pilots evaluated the Tupolev Tu-144 supersonic transport aircraft on three dedicated flights: one subsonic and two supersonic profiles. The flight profiles and maneuvers were developed jointly by Tupolev and U.S. engineers. The vehicle was found to have unique operational and flight characteristics that serve as lessons for designers of future supersonic transport aircraft. Vehicle subsystems and observed characteristics are described as are flight test planning and ground monitoring facilities. Maneuver descriptions and extended pilot narratives for each flight are included as appendices.

Joint US/Russia TU-144 Engine Ground Tests Waldo A. Acosta, 1997 Two engine research experiments were recently completed in Moscow, Russia using an

engine from the Tu-144 supersonic transport airplane. This was a joint project between the United States and Russia. Personnel from the NASA Lewis Research Center, General Electric Aircraft Engines, Pratt & Whitney, the Tupolev Design Bureau, and IBP Aircraft LTD worked together as a team to overcome the many technical and cultural challenges. The objective was to obtain large scale inlet data that could be used in the development of a supersonic inlet system for a future High Speed Civil Transport (HSCT). The first experiment studied the impact of typical inlet structures that have trailing edges in close proximity to the inlet/engine interface plane on the flow characteristics at that plane. The inlet structure simulated the subsonic diffuser of a supersonic inlet using a bifurcated splitter design. The centerbody maximum diameter was designed to permit choking and slightly supercritical operation. The second experiment measured the reflective characteristics of the engine face to incoming perturbations of pressure amplitude. The basic test rig from the first experiment was used with a longer spacer equipped with fast actuated doors. All the objectives set forth at the beginning of the project were met.

Tupolev Tu-114 Yefim Gordon, Vladimir Rigmant, 2007 In the early 1950s, OKB Tupolev, the Tupolev design bureau, was instructed by the Soviet government to design a civil airliner with an intercontinental range. Based upon the earlier four-engined Tu-95 strategic bomber, the resulting aircraft was the largest airliner constructed at that time, providing accommodation for up to 220

passengers. The Tu-144 confounded experts by being able to fly at speeds similar to those achieved by jet aircraft, while still using turboprop technology. The Tu-114 set a number of records, including the speed record for a turbo-prop aircraft that still stands 50 years later. A total of 31 Tu-114's entered service with Aeroflot, operating over long distance internal services and international services to cities from Tokyo to Havana. Gradually replaced from 1971, the last Tu-144 Aeroflot service was withdrawn in 1975. However, a number of the Tu-114's were subsequently converted into AWACS aircraft as the Tu-126 Moss for operation in the Soviet navy.

Flight Test Measurements From The Tu- 144LL Structure/Cabin Noise Experiment Stephen Anthony Rizzi, 2000

A Qualitative Piloted Evaluation of the Tupolev Tu-144 Supersonic Transport National Aeronautics and Space Administration (NASA), 2018-05-29 Two U.S. research pilots evaluated the Tupolev Tu-144 supersonic transport aircraft on three dedicated flights: one subsonic and two supersonic profiles. The flight profiles and maneuvers were developed jointly by Tupolev and U.S. engineers. The vehicle was found to have unique operational and flight characteristics that serve as lessons for designers of future supersonic transport aircraft. Vehicle subsystems and observed characteristics are described as are flight test planning and ground monitoring facilities. Maneuver descriptions and extended pilot narratives for each flight are included as appendices. Rivers, Robert A. and Jackson, E. Bruce and Fullerton, C.

Gordon and Cox, Timothy H. and Princen, Norman
H. Armstrong Flight Research Center; Langley
Research Center FLIGHT CHARACTERISTICS; FLIGHT
TESTS; SUPERSONIC TRANSPORTS; TU-144 AIRCRAFT;
PROVING; ENGINEERS; FLIGHT PATHS; TUPOLEV
AIRCRAFT; TRANSPORT AIRCRAFT

OKB Tupolev E. Gordon, Vladimir Rigmant, 2005 A
History of the Design Bureau and its Aircraft
Yefim Gordon & Vladimir Rigmant The origins of the
design bureau that was to bear his name can be
traced back to the appointment of Andrey
Nikolayevich Tupolev as head of the TsAGI's
Aviation Department in 1918. Over the years,
nearly 300 projects have evolved within the OKB.
Nearly 90 reached the prototype construction
stage, with more than 40 types put into series
production. In the 1930s, the TB-1 (ANT-4) and TB-3
(ANT-6) bombers, the latter being the world's
first heavy strategic bomber, paved the way for
the long line of large multi-engined aircraft both
civil and military for which the OKB is justly
famed. Wartime production of the SB and Tu-2 plus
the remarkable 'reverse engineering' of the Boeing
B-29 that resulted in the Tu-4 led on to the jet
Tu-16 and prop Tu-95 bombers. These, in turn were
adapted for civil purposes as the Tu-104 and
Tu-114 airliners. The supersonic Tu-22 and Tu-22M
bombers and the Tu-144 airliner, a move into
pilotless aircraft and a host of imaginative but
unbuilt projects complete a fascinating work.

Soviet SST Howard Moon, 1989 Historien om
udviklingen af Soviets supersoniske transportfly,
der blev stoppet i 1984 efter to fatale crash

The World's Most Powerful Civilian Aircraft Paul

E. Eden, 2016-12-15 *The World's Most Powerful Civilian Aircraft* profiles many types, from cargo transports and freighters, through flying boats, passenger airliners, and business jets. Featured aircraft include the Ford Trimotor "Tin Goose," one of the great workhorses of early aviation history; the supersonic Tupolev Tu-144 "Charger" and Concorde, Cold War competitors in aviation excellence; and the most popular passenger aircraft of the present, including the Boeing 747 and Airbus A380. Each entry includes a brief description of the model's development and history, a profile view, key features, and specifications. Packed with more than 200 artworks and photographs, this is a colorful guide for the aviation enthusiast.

Tupolev Tu-95/-142 Yefim Gordon, E. Gordon, 2004-03-24 - Covers the Tu-95 'Bear', a machine with impressive speed--unique in that it combined turboprop engines with swept wings. The aircraft quickly became a symbol of the Soviet threat. - This book covers the Bear's development and service from inception to present day--some of the Bear's versions remain in service today. - Contains approximately 200 black & white and color photos.

Design for Impact Eric Ericson, Johan Pihl, 2003 Impact is a loving, if occasionally wry, look at the safety cards that air travelers inevitably encounter and stuff away behind their in-flight magazines. It entwines graphic and aviation history, and it traces these icons of universal design from the kitschy - for Pan-Am's Flying Clipper in the 1930s - to the sanitized pictograms

used on today's jumbo jets. Taken from their seatbacks and gathered together here, the cards of Design for Impact offer a humorous look at a basic - and urgent - form of visual communication.--BOOK JACKET.Title Summary field provided by Blackwell North America, Inc. All Rights Reserved

Tupolev Paul Duffy,A. I. Kandalov,1996 This book focuses on the aircraft designs of the man often referred to as the father of Russian aviation, Andrei Nikolaevich Tupolev. Born in Russia in 1888, Tupolev went on to design aircraft that earned Russia worldwide acclaim for their contributions to aviation in the 1920s, '30s, and '40s.

Estimation of Handling Qualities Parameters of the Tu-144 Supersonic Transport Aircraft from Flight Test Data ,2000

Soviet SST, Techno-Politics of the Tupolev-144 Moon, Sis,Howard Moon,1990-10-01

Tupolev Aircraft Since 1922 Bill Gunston,1995 This popular and highly-acclaimed series includes an abundance of photos, accurate line drawings, fascinating evaluations of aircraft design, and complete histories of aircraft manufacturers.

Longitudinal Handling Qualities of the Tu-144LL Airplane and Comparisons with Other Large, Supersonic Aircraft National Aeronautics and Space Administration (NASA),2018-06-04 Four flights have been conducted using the Tu-144LL supersonic transport aircraft with the dedicated objective of collecting quantitative data and qualitative pilot comments. These data are compared with the following longitudinal flying qualities criteria: Neal-Smith, short-period damping, time delay,

control anticipation parameter, phase delay ($\omega(s) \cdot T(\theta(2))$), pitch bandwidth as a function of time delay, and flight path as a function of pitch bandwidth. Determining the applicability of these criteria and gaining insight into the flying qualities of a large, supersonic aircraft are attempted. Where appropriate, YF-12, XB-70, and SR-71 pilot ratings are compared with the Tu-144LL results to aid in the interpretation of the Tu-144LL data and to gain insight into the application of criteria. The data show that approach and landing requirements appear to be applicable to the precision flightpath control required for up-and-away flight of large, supersonic aircraft. The Neal-Smith, control anticipation parameter, and pitch-bandwidth criteria tend to correlate with the pilot comments better than the phase delay criterion, $\omega(s) \cdot T(\theta(2))$. The data indicate that the detrimental flying qualities implication of decoupled pitch-attitude and flightpath responses occurring for high-speed flight may be mitigated by requiring the pilot to close the loop on flightpath or vertical speed.

Cox, Timothy H. and Marshall, Alisa
 Armstrong
 Flight Research Center
 SUPERSONIC AIRCRAFT; TU-144
 AIRCRAFT; FLIGHT CHARACTERISTICS; DATA
 ACQUISITION; CONTROLLABILITY; BANDWIDTH; PILOT
 RATINGS; AIRCRAFT PERFORMANCE; SUPERSONIC
 TRANSPORTS; TRANSPORT AIRCRAFT; B-70 AIRCRAFT;
 SR-71 AIRCRAFT; FLIGHT PATHS; YF-12 AIRCRAFT

NASA's Contributions to Aeronautics: Flight environment, operations, flight testing, and research ,2010 Two-volume collection of case

studies on aspects of NACA-NASA research by noted engineers, airmen, historians, museum curators, journalists, and independent scholars. Explores various aspects of how NACA-NASA research took aeronautics from the subsonic to the hypersonic era.-publisher description.

NASA's Contributions to Aeronautics, Volume 2, Flight Environment ..., NASA/SP-2010-570-Vol 2, 2010, * ,2011

Popular Science ,1970-07 Popular Science gives our readers the information and tools to improve their technology and their world. The core belief that Popular Science and our readers share: The future is going to be better, and science and technology are the driving forces that will help make it better.

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web the connection will be made with gusset plates of finnish birch plywood with a thickness of 12 mm the gusset plate has a clear coverage of 250 mm in the rafters and 100 mm in the post figure 1 the face grain is horizontal to the connection figure 1 members to be connected the fasteners that will be used are nails with a tensile strength

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rubber bands and tie
them around both markers
in a single loop no
picture step 2 now take
the first band that s

wrapped around the blue
marked and lift it over
the top of the marker
towards the center then
do same for the first
band that s wrapped
around the purple marker
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fingers first place an
orange band around your
middle finger then twist
it into a figure 8 and
place 1 of the loops on
your ring finger wrap 2
purple bands around your
ring
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